THINGET

MP760 series PLC+HMI

Operation Manual

Catalog

1,	Brief Introduction of MP760	.3
2、	Functions and Specifications	.7
3、	External Dimension and Installation	11
4、	Edit Software	12

1. Brief Introduction of MP760

1. Functions and Specialties

- \bullet MP760 = TP760 + XC2-32
- Integrate logic control, analog input/output, HMI in one body

Digital Input: 16 points Digital Output: 16 points

Analog Option: Choose any of XP3-2PT2AD-BD XP3-2TC-P-BD

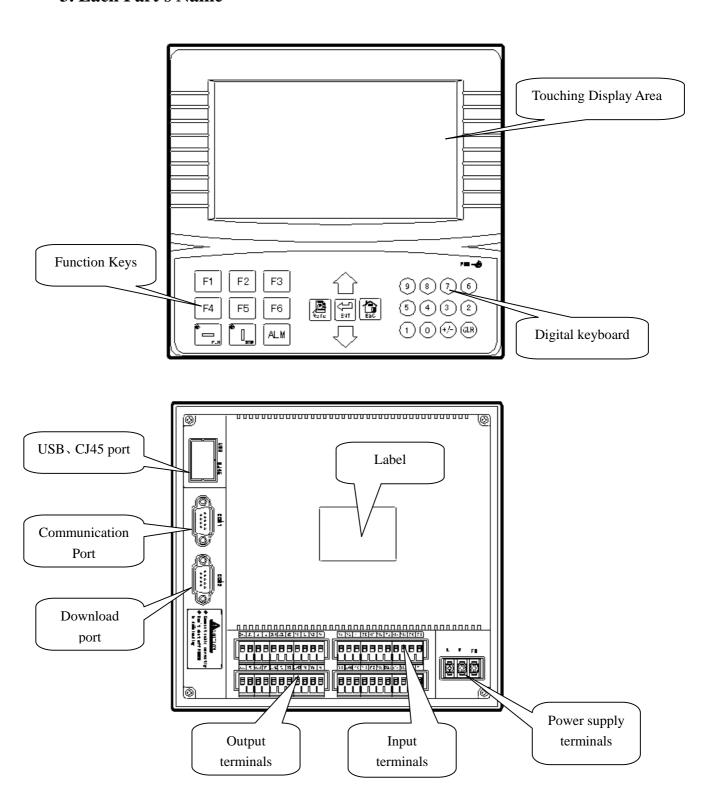
XP3-4AD-BD,etc. at your will

- Brief HMI edit interface with rich functions
- LCD Display: 480×234 pixels (7inch); LCD's using life can reach 50 million hours
- 26 function keys; set functions freely
- Key-press is sensitive but precise;
- The program port is designed to have multi-function: use one cable to program both HMI and PLC program;
- Water-proof level fits with IP65;
- Compact structure, save great space in the electrical control tank
- Simple but fashion appearance

2.General Specifications

Input Voltage	AC220V	
Power Consumption	Lower than 10W (TYP2.0W)	
Momentary Power Off	Less than 20ms	
Allowance		
Voltage Endurance	AC1000V-10mA 1min. (between signal and ground)	
Insulated resistor	DC500Vabout $10M \Omega$ (between signal and ground)	
Operating Temperature	0~50℃	
Storage Temperature	–10~60°C	
Ambient Temperature	20~85% (No Dew)	
Vibration Endurance	10~25Hz (X, Y, Z each direction 30 min.2G)	
Anti-interference	Voltage Noise: 1000Vp-p	
Surrounding Atmosphere	No corrosive gasses	
Protection Structure	Fit with IP65F	

3. Each Part's Name



4. Basic Functions of the Keys

Key	Basic Functions
CRUN	Run the program, with LED indication lamp
C) STOP	Stop running the program, with LED indication lamp
ESC	No matter what state the panel stays, once press down this key, return to the system's start screen. The start screen is specified by the user when designing (the default screen is screen1). Normally set the system's start screen with the main menu screen or the screen which is used frequently.
1	Turn to the previous screen
•	Turn to the next screen
Refer	Search, jump to the user specified screen
ENT	Write the modified data into the register, then go on modifying the next register, after the last one been modified, exit the modifying state.
ALM	Alarm list key, after setting the alarm list functions, press this key to enter alarm list screen quickly.
CLR	When modifying the data of the register, clean the selected area.
+/-	When modifying the data of the register, set the value to be negative or positive
1	Number keys (0-9), in the state of setting data, the modifying bit turns to be the correspond key's value
F1	Function keys (F1-F6), common function keys

Attention: Besides the functions described in the above table, each key can also be defined to be "set ON", "set OFF", "Reverse", or "Momentary ON" by the user.

5. LED Indicate Lamp

PWR: Power supply indication, normally on when power is on

RUN: Program to control it on STOP: Program to control it on/off

6. Download/communication port

(1) Download Port: Both the HMI and XC2 use the same RS232 download port.

Pin2	RXD
Pin3	TXD
Pin4	RTS
Pin5	GND

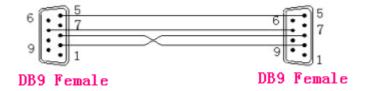
RS-485 Communication Port: be used to connect HMI with the slave equipments

Pin1	A
Pin9	В
Pin6	PRT (short connect pin5 and pin6 to enable print function)
Pin8	DOWNLOAD (short connect pin5 and pin8 to force downloading)

(2) Communication Port: The communication port for XC2 series PLC, RS-232 or RS-485

Pin2	RXD
Pin3	TXD
Pin5	GND

7. Connection Cable For Programing



2.Functions and Specifications

1. HMI Functions and Specifications

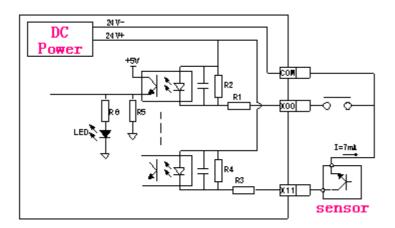
	Item	TFT true color 256 color LCD
	Screen Size	7 inch
	Using Life	Up to 50000 hours, ambient temperature is 25 degrees, 24 hours
G		running
Screen	Display Area	480*234
Property	Contrast	Modifiable
Troperty	Words Setting	Any language you want
	External	Any font, any size
	Dimension	
	Touch panel	Digital format touch
Memory	Screen	8MB
Wiemory	Data	4KB
	Communication	Support RS-232/RS-485
Port	port	
	Download port	RS-232

2. PLC Specifications

(1) Input specifications and wiring

Input Signal's Voltage	DC24V±10%		
Input Signal's Current	7mA/DC24V		
Input ON Current	Up to 4.5mA		
Input OFF Current	Below 1.5mA		
Input Response Time	About 10ms		
Input Signal Form	Contact input or NPN normally ON		
	transistor.		
Circuit Insulation	Optical- coupling insulation		
Input Action Display V	LED be on when input is on		

(2) Input Wiring



(3) Output Specifications and Wiring

♦ Relay Output

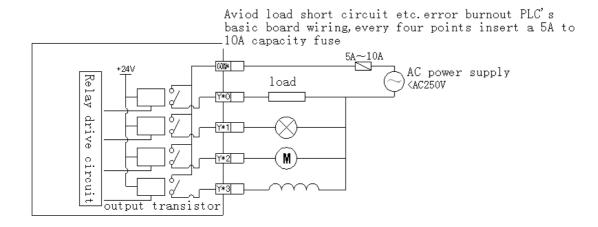
Internal Power Supply		Below AC250V, DC30V
Circuit Isolation		Mechanism isolation
Action Indi	cation	LED indicator
	Resistor load	3A
Maximum Load	Induction load	80VA
	Lamp load	100W
Open Circuit Leakage Circuit		No
Minimum Load		DC5V 2mA
Response	OFF→ON	10ms
Time	ON→OFF	10ms

♦ Transistor Output

Internal Power Supply		Below DC5~30V
Circuit Isolation		Optional-coupling insulation
Action Indi	cation	LED indicator
	Resistor load	0.8A
Load	Induction load	12w/DC24V
	Lamp load	1.5W/DC24V
Open Circuit Leakage Circuit		< 0.1 mA
Minimum Load		DC5V 2mA
Response	OFF→ON	0.2ms
Time	ON→OFF	0.2ms

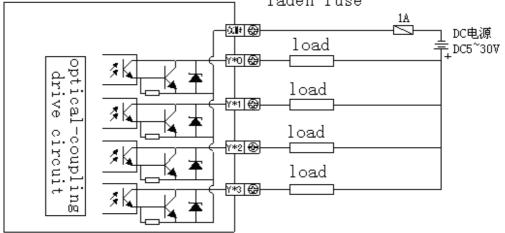
(3) Output wiring

♦ Relay output wiring



♦ Transistor output wiring

To avoid load short circuit and etc.error burn out the output unit, burnout program controller's basic wiring, please choose right laden fuse



3.Functions Configuration

(1) Input/output format

- ◆ I/O: 16 inputs 16 outputs
- ♦ Input: optical-Coupling isolation
- Output: R type (relay output), T type (transistor output)

(2) High-speed counter

◆ Single –phase high-speed counter: 5 channels

Channel	Input	Counter	Maximum frequency
CHL1	X0	C600	80KHZ
CHL2	X1	C602	80KHZ
CHL3	X3	C604	10KHZ
CHL4	X6	C606	10KHZ
CHL5	X7	C608	10KHZ

♦ AB phase high-speed counter: 2 channels

Channel	Input	Maximum frequency
CHL1	X0、X1	80KHZ
CHL2	X3、X4	5KHZ

(3) High-speed pulse

◆ RT/T type: Y0、Y1, Maximum 200KHZ

♦ R type: Do not support

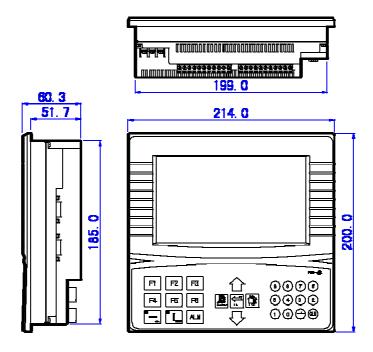
(4) External interrupts

External interrupt: 2 channels

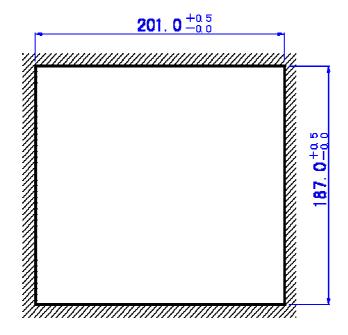
CHL1	X2	INT 0
CHL2	X5	INT 1

3. External Dimension and Installation

1. External dimension



2. Mounting dimension



4. Program Software

1. Edit The Screen Project

The user can TouchWin edit tool to program MP760's HMI part. For the details, please refer to 《TP user manual》

2. Program the PLC Part

Use XCPPro to program MP760's PLC part. For the details, please refer to 《XC-PLC user manual》

Xinje Electronic Co.,Ltd.

Address: 4th Floor, Building 7, Originality Industry Park,

LiYuan Development Zone, Wuxi city, JiangSu Province

Website: www.xinje.com

Tel.: 0086 510 85134136

Fax: 0086 510 85111290

H.P: 0086 13771556435

Mailbox: cheerfiona@gmail.com

MSN: loving-fiona@hotmail.com



无锡市信捷科技电子有限公司

江苏省无锡市蠡园开发区 创意产业园7号楼四楼

邮编: 214072

电话: (0510)85134136 传真: (0510)85111290

Xinje Electronic Co., Ltd.

4th Floor Building 7,Orignality Industry park, Liyuan Development Zone, Wuxi

City, Jiangsu Province 214072

Tel: (510)85134136 Fax: (510)85111290